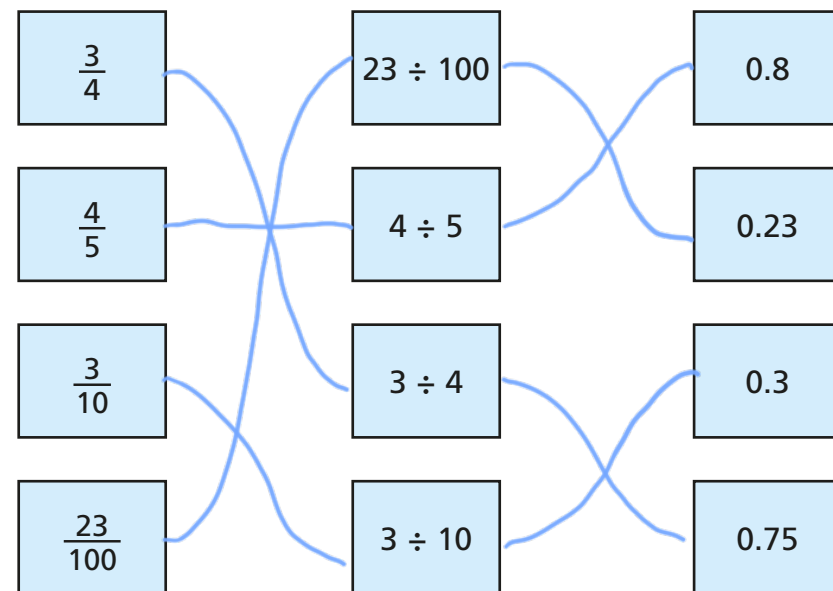


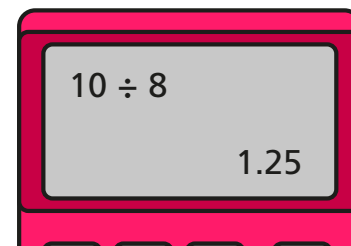
# Understand fractions as division

- 1 Use a calculator to help you match up the fraction with its division.

Then match up the division to the decimal answer.



- 2 Huan is writing  $\frac{8}{10}$  as a division on his calculator.



- a) What mistake has Huan made?

He has divided the numbers the wrong way

- b) What should he have typed on the calculator? 8 ÷ 10

- 3 Write the fractions as divisions.

Use your calculator to work out the answer as a decimal.

a)  $\frac{3}{5} = \boxed{3} \div \boxed{5} = \boxed{0.6}$

b)  $\frac{7}{8} = \boxed{7} \div \boxed{8} = \boxed{0.875}$

c)  $\frac{7}{20} = \boxed{7} \div \boxed{20} = \boxed{0.35}$

d)  $\frac{37}{50} = \boxed{37} \div \boxed{50} = \boxed{0.74}$

e)  $\frac{7}{4} = \boxed{7} \div \boxed{4} = \boxed{1.75}$

f)  $\frac{15}{6} = \boxed{15} \div \boxed{6} = \boxed{2.5}$

- 4 Write the divisions as fractions.

a)  $6 \div 9 = \boxed{\frac{6}{9}}$

d)  $7 \div 19 = \boxed{\frac{7}{19}}$

b)  $2 \div 5 = \boxed{\frac{2}{5}}$

e)  $10 \div 4 = \boxed{\frac{10}{4}}$

c)  $7 \div 12 = \boxed{\frac{7}{12}}$

f)  $27 \div 5 = \boxed{\frac{27}{5}}$

- 5 Circle the fractions that are equivalent to  $\frac{45}{60}$

You should use division on a calculator to help you.

$\frac{8}{2}$     $\frac{11}{44}$     $\frac{33}{44}$     $\frac{12}{16}$     $\frac{360}{480}$

Discuss with a partner the method you used.

6 Show that the statements are true.

a)  $\frac{30}{50}$  and  $\frac{17}{40}$  are not equal.

$$30 \div 50 = 0.6 \quad 17 \div 40 = 0.425$$

$$0.6 \neq 0.425$$

b)  $\frac{170}{200}$  is less than  $\frac{9}{10}$

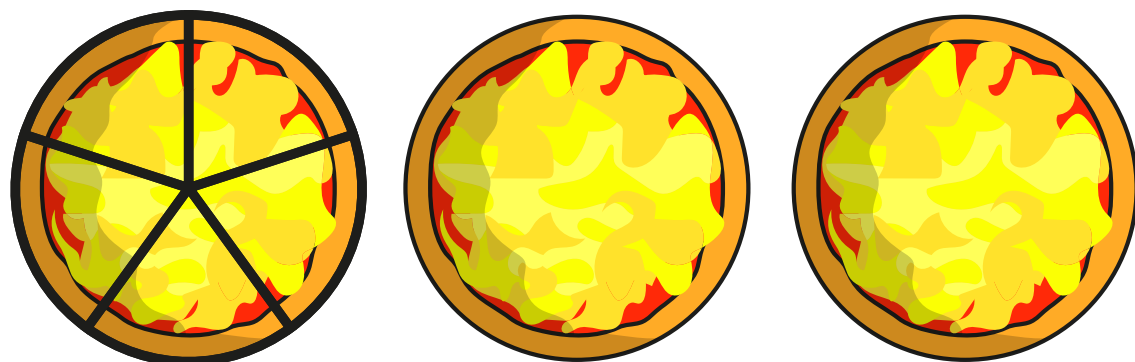
$$170 \div 200 = 0.85 \quad 9 \div 10 = 0.9$$

$$0.85 < 0.9$$

7 Circle the smaller fraction in each pair.

a)  $\frac{3}{4}$   $\frac{4}{5}$  b)  $\frac{9}{10}$   $\frac{23}{25}$  c)  $\frac{19}{30}$   $\frac{15}{20}$  d)  $\frac{11}{19}$   $\frac{53}{99}$

8 These 3 pizzas are divided equally between 5 people.



What fraction of one pizza does each person receive?

Each person receives  $\frac{3}{5}$  of a pizza.

9 a) £2 is shared equally between 8 people.

What fraction of £1 does each person get?

Each person gets  $\frac{1}{4}$  of £1

b) Nijah swims the same distance each day for 7 days.

She swims 4 km in total across the week.

What fraction of a km does Nijah swim each day?

Each day Nijah swims  $\frac{4}{7}$  km.

10 Put the fractions in descending order.

$\frac{31}{50}$   $\frac{45}{75}$   $\frac{18}{24}$   $\frac{130}{2000}$

Show your method.

$\frac{18}{24}$   $\frac{31}{50}$   $\frac{45}{75}$   $\frac{130}{2000}$